

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 150,906 PCT	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/IL 03/00552	International filing date (day/month/year) 03/07/2003	(Earliest) Priority Date (day/month/year) 25/07/2002
Applicant YISSUM RESEARCH DEVELOPMENT COMPANY OF THE...		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 06 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

BIO-DEGRADABLE MICROSPHERES FOR DIAGNOSING GASTROESOPHAGAL REFLUX

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

Internatio: .pplication No
PCT/IL 03/00552

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K49/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, EMBASE, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	AVITAL AVRAHAM ET AL: "Charcoal is a sensitive, specific, and stable marker for the diagnosis of aspiration in hamsters" PEDIATRIC RESEARCH, vol. 51, no. 3, March 2002 (2002-03), pages 397-401, XP002263602 ISSN: 0031-3998 cited in the application the whole document	8
X	EP 0 804 932 A (IMARX PHARMACEUTICAL CORP) 5 November 1997 (1997-11-05) column 4, line 7-11; claims 8-10	1-6
Y		8
X	WO 98 07410 A (MAGDASSI SHLOMO ;SOON SHIONG PATRICK (US); FERRERI KEVIN (US); DES) 26 February 1998 (1998-02-26) page 7, line 9-14; examples 5,6	1-4
Y		8
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

17 December 2003

Date of mailing of the international search report

13/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Perez, F

INTERNATIONAL SEARCH REPORT

Internatic Application No
PCT/IL 03/00552

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
------------	--	-----------------------

X	US 2001/010824 A1 (HANDJANI ROSE-MARIE ET AL) 2 August 2001 (2001-08-02)	1-7
Y	paragraphs '0011!', '0013!; examples 16-18, 21, 22	8
X	US 5 665 383 A (SOON-SHIONG PATRICK ET AL) 9 September 1997 (1997-09-09)	1-7
Y	column 1-2, 7-8; example 5	8
A	<p>--- DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1985 CORWIN R W ET AL: "THE LIPID-LADEN ALVEOLAR MACROPHAGE AS A MARKER OF ASPIRATION IN PARENCHYMAL LUNG DISEASE" Database accession no. PREV198681008845 XP002263605 cited in the application the whole document & AMERICAN REVIEW OF RESPIRATORY DISEASE, vol. 132, no. 3, 1985, pages 576-581, ISSN: 0003-0805</p>	8
A	<p>--- ELIDEMIR OKAN ET AL: "A novel diagnostic method for pulmonary aspiration in a murine model: Immunocytochemical staining of milk proteins in alveolar macrophages" AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE, vol. 161, no. 2 part 1, February 2000 (2000-02), pages 622-626, XP002263603 ISSN: 1073-449X cited in the application the whole document</p>	8
A	<p>--- DERKSEN O S ET AL: "VALUE OF RADIOLOGY IN THE DIAGNOSIS OF REFLUX ESOPHAGITIS" DIAGNOSTIC IMAGING IN CLINICAL MEDICINE, vol. 54, no. 5, 1985, pages 257-262, XP009021979 ISSN: 0254-881X the whole document</p>	8
A	<p>--- MCVEAGH P ET AL: "PULMONARY ASPIRATION STUDIED BY RADIONUCLIDE MILK SCANNING AND BARIUM SWALLOW ROENTGENOGRAPHY" AMERICAN JOURNAL OF DISEASES OF CHILDREN, vol. 141, no. 8, 1987, pages 917-921, XP009021952 ISSN: 0002-922X cited in the application the whole document</p>	8

-/--

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IL 03/00552

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,Y	<p>AVITAL AVRAHAM ET AL: "Polystyrene microspheres as a specific marker for the diagnosis of aspiration in hamsters" AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY, vol. 27, no. 4, October 2002 (2002-10), pages 511-514, XP002263604 ISSN: 1044-1549 the whole document</p> <p>-----</p>	8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IL 03/00552

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0804932	A	05-11-1997	US 5205290 A	27-04-1993
			EP 1064953 A2	03-01-2001
			EP 0804932 A2	05-11-1997
			GR 3036289 T3	31-10-2001
			AT 180794 T	15-06-1999
			AT 201217 T	15-06-2001
			AU 660676 B2	06-07-1995
			AU 1744292 A	02-11-1992
			AU 698209 B2	29-10-1998
			AU 3310395 A	11-01-1996
			AU 8420698 A	24-12-1998
			BR 1100619 A3	01-08-2000
			CA 2107466 A1	06-10-1992
			DE 69229342 D1	08-07-1999
			DE 69229342 T2	14-10-1999
			DE 69231830 D1	21-06-2001
			DE 69231830 T2	18-10-2001
			DK 580726 T3	23-06-1999
			DK 804932 T3	06-08-2001
			EP 0580726 A1	02-02-1994
			ES 2134214 T3	01-10-1999
			ES 2157521 T3	16-08-2001
			GR 3030411 T3	30-09-1999
			JP 6506254 T	14-07-1994
			JP 2003160512 A	03-06-2003
			WO 9217514 A1	15-10-1992
			US 5456900 A	10-10-1995
			US 2003053953 A1	20-03-2003
			US 5874062 A	23-02-1999
			US 5547656 B1	20-07-1999
			US 5547656 A	20-08-1996
			US 5527521 A	18-06-1996
			US 2001024639 A1	27-09-2001
			US 6117414 A	12-09-2000
			US 5281408 A	25-01-1994
WO 9807410	A	26-02-1998	AU 3916997 A	06-03-1998
			CA 2263765 A1	26-02-1998
			EP 0938299 A1	01-09-1999
			WO 9807410 A1	26-02-1998
US 2001010824	A1	02-08-2001	FR 2659554 A1	20-09-1991
			US 6203802 B1	20-03-2001
			AT 123219 T	15-06-1995
			CA 2038331 A1	17-09-1991
			DE 69110070 D1	06-07-1995
			DE 69110070 T2	12-10-1995
			DK 447318 T3	02-10-1995
			EP 0447318 A1	18-09-1991
			ES 2072563 T3	16-07-1995
			JP 2676281 B2	12-11-1997
			JP 5148129 A	15-06-1993
			ZA 9101933 A	24-12-1991
US 5665383	A	09-09-1997	US 5498421 A	12-03-1996
			US 5439686 A	08-08-1995
			US 5362478 A	08-11-1994
			US 2003073642 A1	17-04-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/IL 03/00552

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5665383	A	US 2003068362 A1	10-04-2003
		US 2003133955 A1	17-07-2003
		US 5635207 A	03-06-1997
		US 5650156 A	22-07-1997
		US 5639473 A	17-06-1997
		US 5665382 A	09-09-1997
		US 6537579 B1	25-03-2003
		US 6506405 B1	14-01-2003
		US 6096331 A	01-08-2000
		AU 673057 B2	24-10-1996
		AU 6249094 A	14-09-1994
		BR 9405798 A	12-12-1995
		CA 2155947 A1	01-09-1994
		CN 1118136 A	06-03-1996
		EP 0693924 A1	31-01-1996
		JP 8507075 T	30-07-1996
		NO 953278 A	13-10-1995
		NZ 262679 A	22-08-1997
		WO 9418954 A1	01-09-1994
		US 5560933 A	01-10-1996
		US 6528067 B1	04-03-2003
		US 5916596 A	29-06-1999
		US 5997904 A	07-12-1999
		US 5508021 A	16-04-1996
		US 5505932 A	09-04-1996
		US 5512268 A	30-04-1996